

2/27

CPO MANAGEMENT
CENTRAL SERVER

200

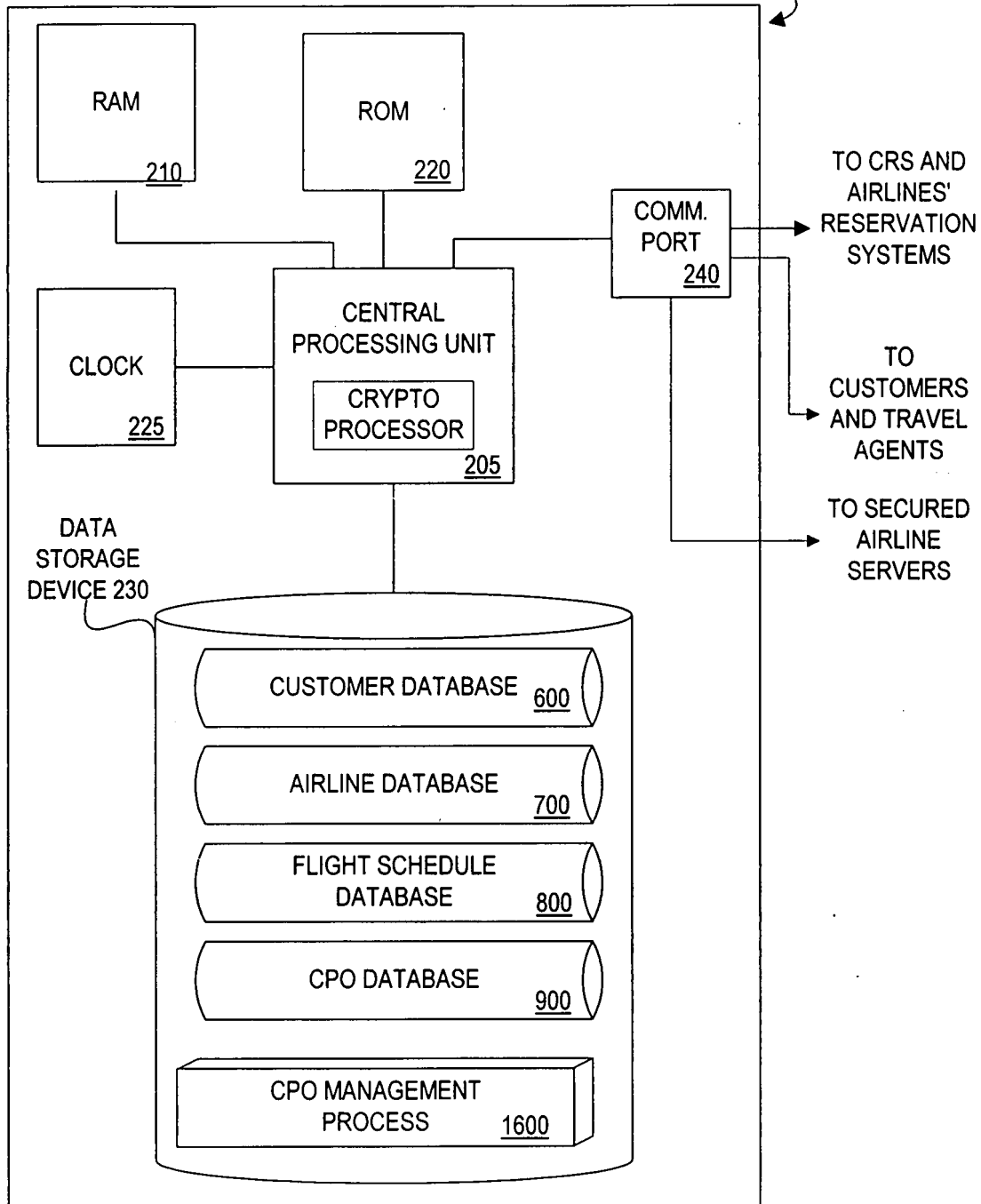


FIG. 2

20250706 19:07:00

705 26

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SECURED AIRLINE SERVER

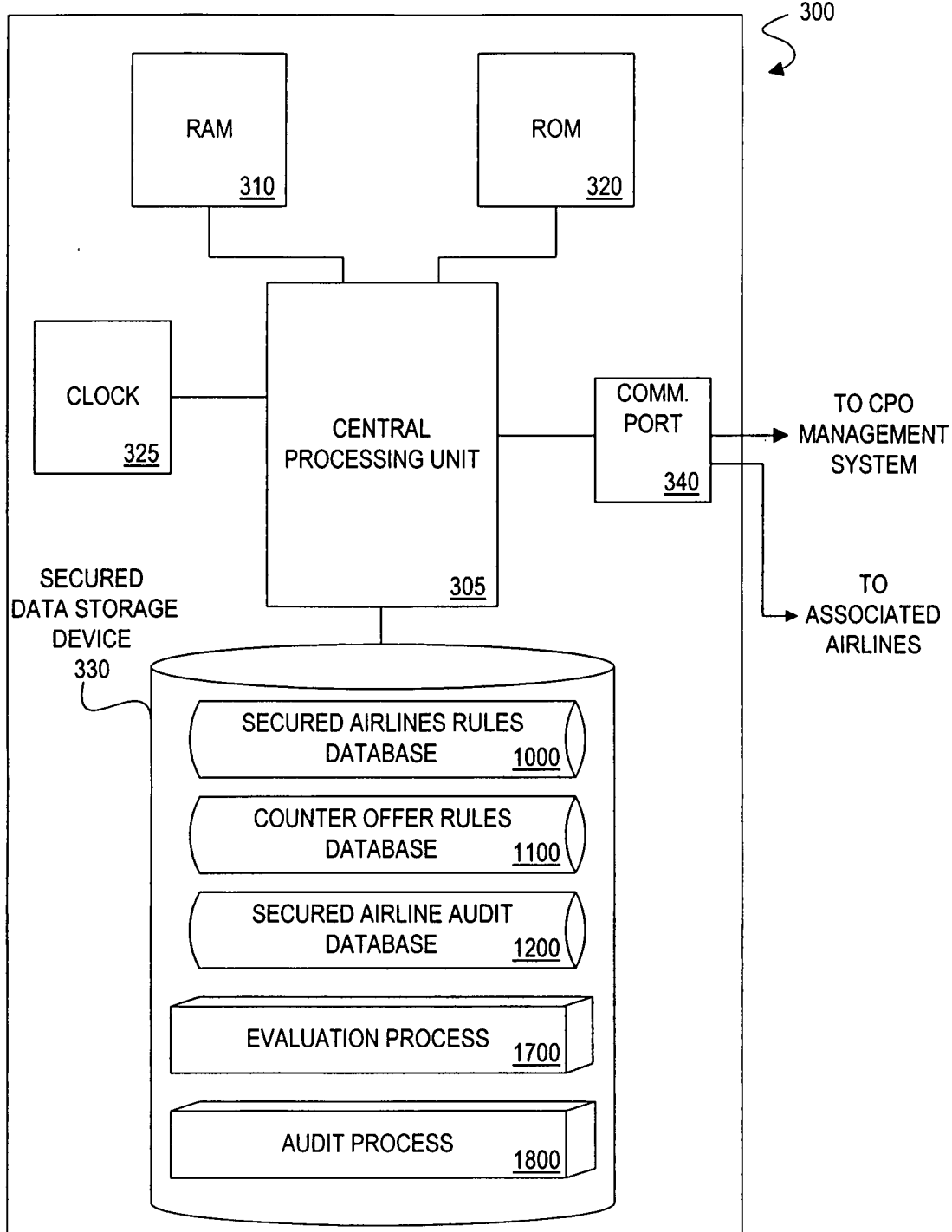


FIG. 3

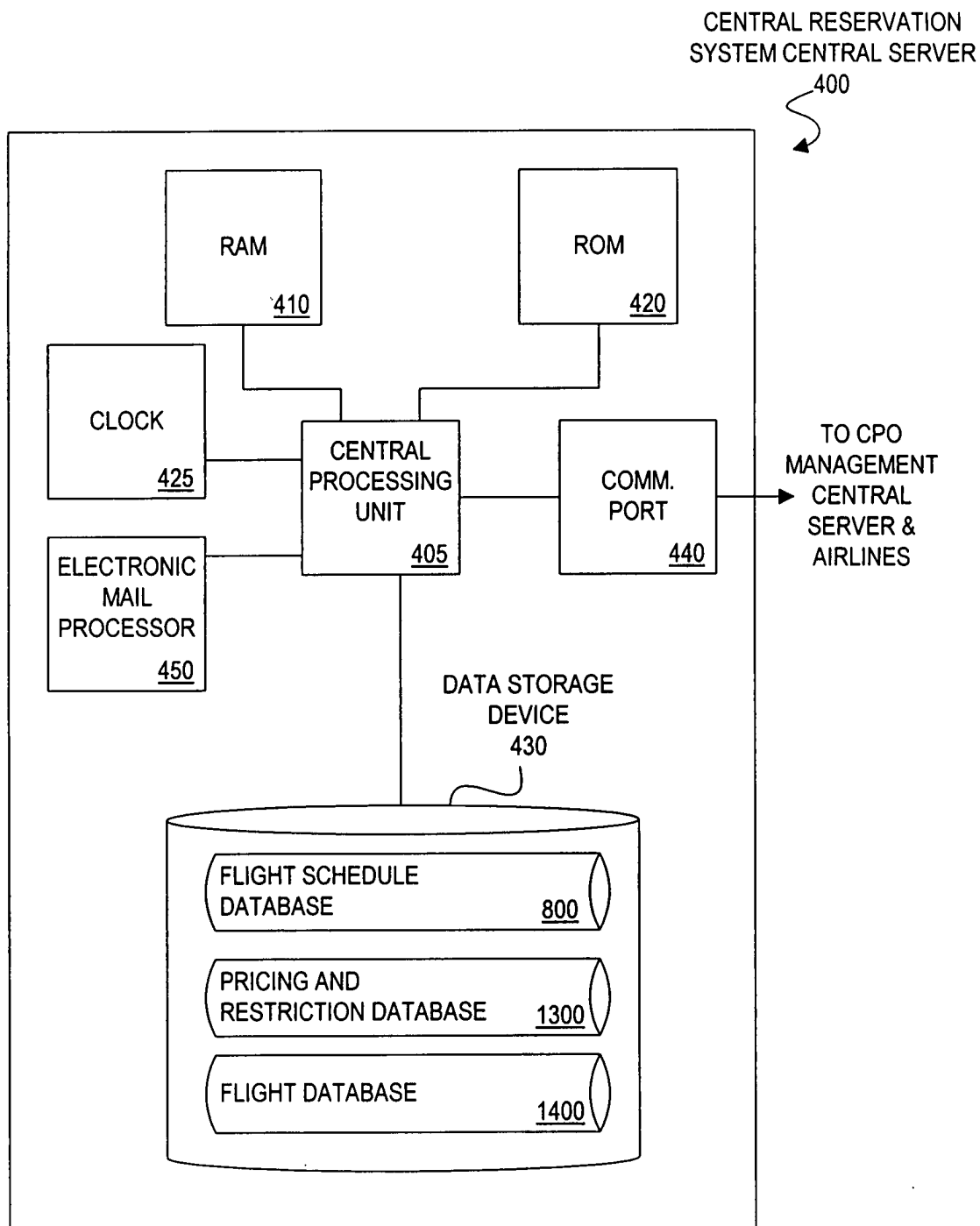


FIG. 4

08889319.070899

705 26

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REVENUE MANAGEMENT
SYSTEM
500

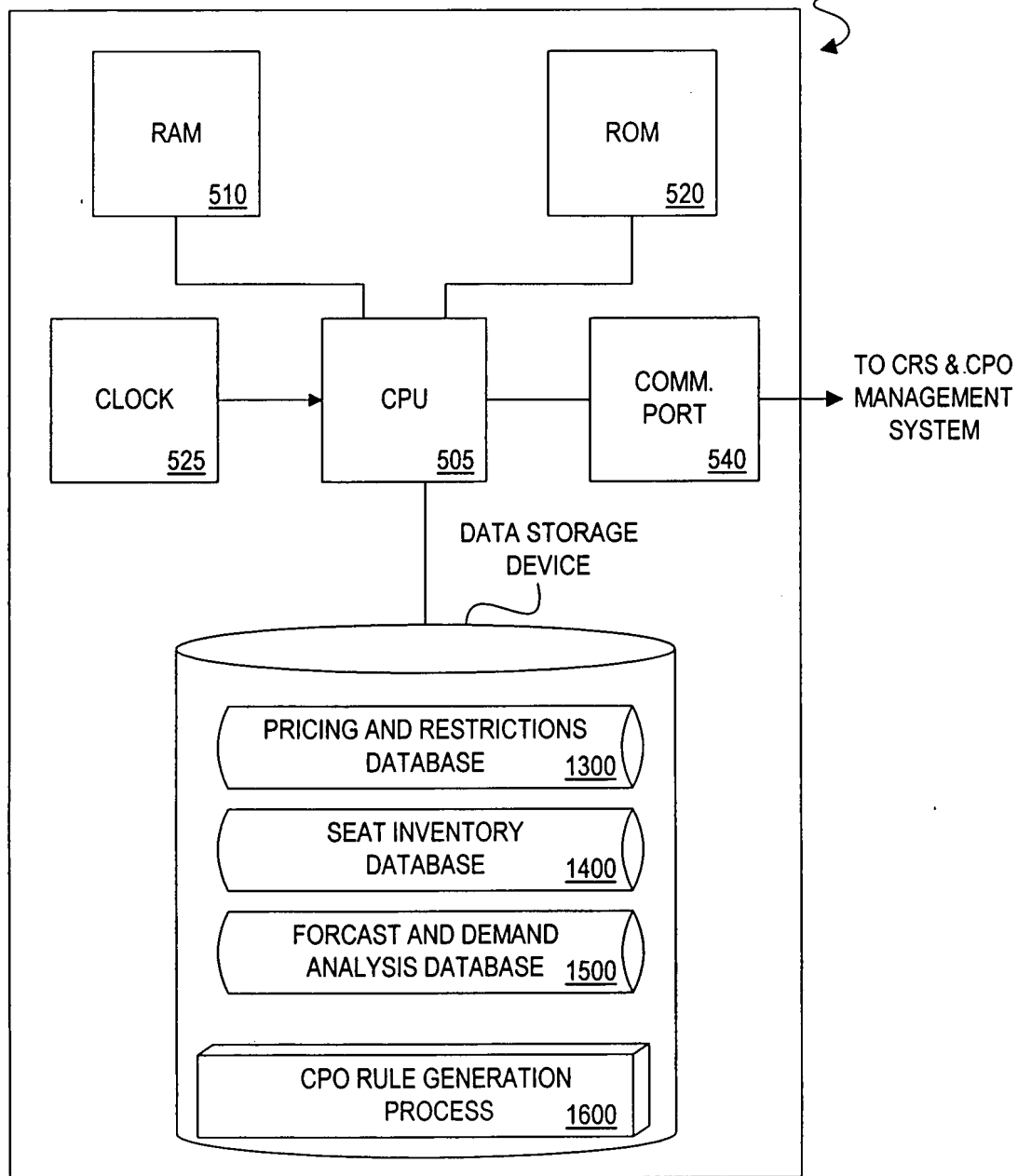


FIG. 5a

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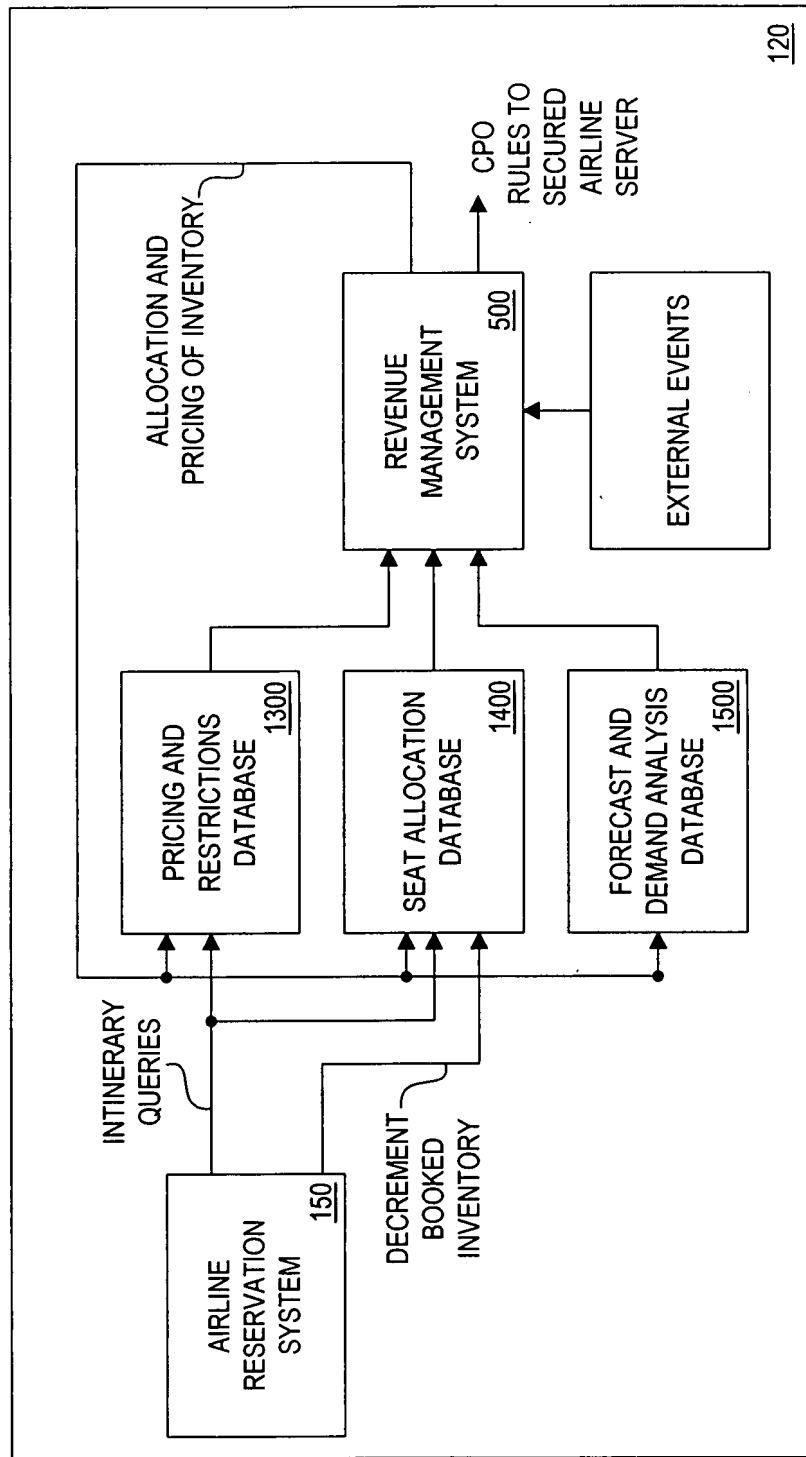
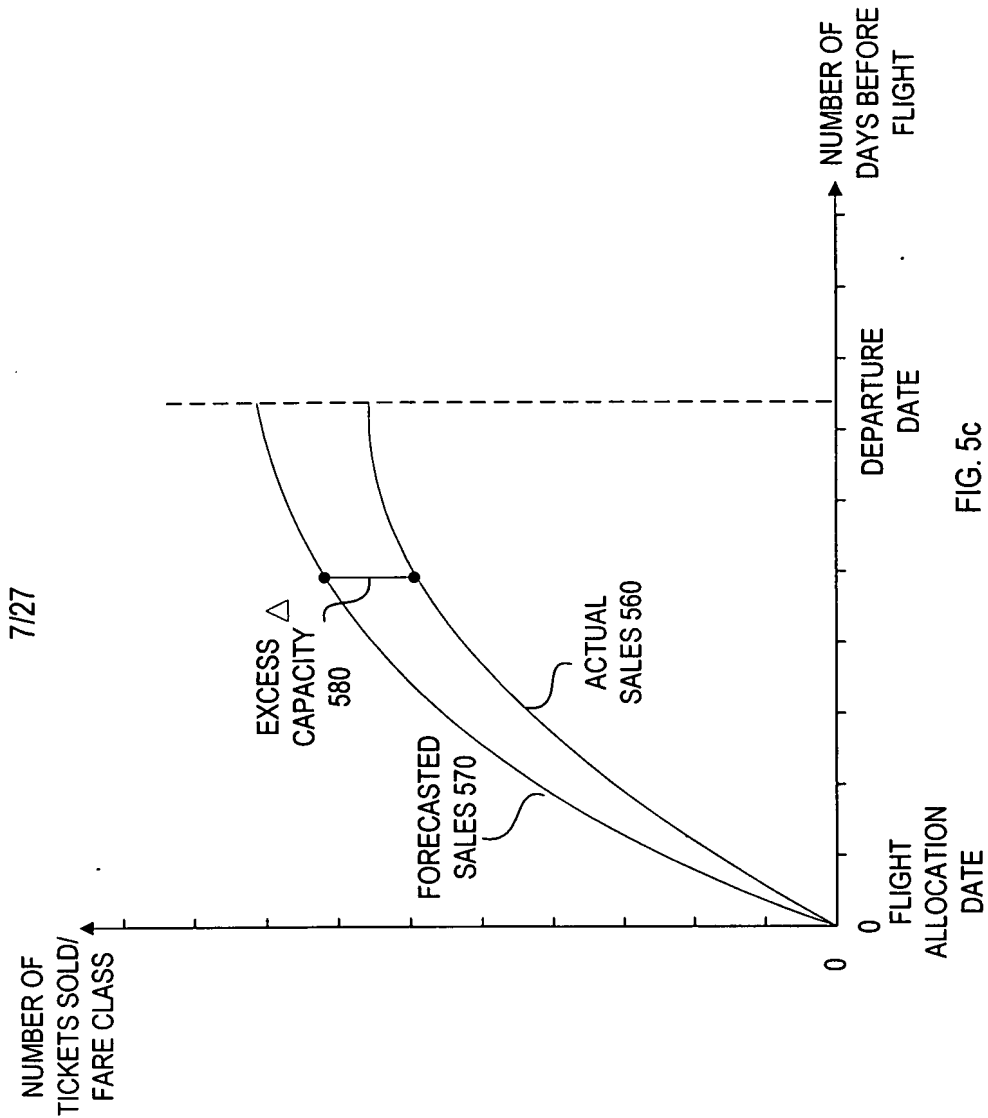


FIG. 5b



268020 6TE6880

705 26

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CUSTOMER DATABASE 600

NAME 640	ADDRESS 645	CREDIT CARD NUMBER 655	ID NUMBER 660
GIACOMO SORENTINO	23 MAIN ST, BRIDGEPORT, CT	2222-3333-4444-5555	234546
BOBBY VALENTINO	43 PARK ST., HARTFORD, CT	9999-8888-7777-6666	65432
JOE SMITH	102 PINE ST. WATERBURY, CT	6767-9898-0101-2323	98765

605

610

615

FIG. 6

268020" 6TF68880

705 26

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AIRLINE DATABASE 700

AIRLINE NAME	ADDRESS	CONTACT	PUBLIC KEY	CPO ACCEPTANCE RATE
740	745	750	755	760
AMERICAN	25 MAIN STREEET, CHICAGO, IL	SUE JOHNSON	12347AD73E	37%
DELTA	102 45TH ST. NEW YORK, NY	BILL JOHNSON	35627A7C9	46%
UNITED	9492 6TH AVE. NEW YORK, NY	JOHN WILLIAMSON	1829CB612	4%

705

710

715

FIG. 7

468040" 67E68880

705 26

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FLIGHT SCHEDULE
DATABASE 800

ORIGINATING AIRPORT 840	DESTINATION AIRPORT 845	DATE 850	TIME OF DEPARTURE 855	TIME OF ARRIVAL 860	AIRLINE 865	FLIGHT NUMBER 870	VIA 875
805 NASHVILLE, TN (BNA)	LOS ANGELES, CA (LAX)	12/12/96	12:00PM	6:00PM	AMERICAN	1870	NON-STOP
810 NEW YORK CITY (JFK)	LOS ANGELES, CA (LAX)	01/01/97	7:00AM	3:04PM	AMERICAN	226	CHICAGO
815 NEW YORK CITY (JFK)	SAN FRANCISCO, CA (SFO)	03/03/97	3:00PM	7:10PM	UNITED	300	NON-STOP

FIG. 8

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CPO DATABASE 900

CPO NUMBER 920	DATE 925	TRAVEL AGENT NUMBER 930	PRIMARY PASSENGER NAME 935	CUSTOMER ID 940	COMPANION PASSENGERS 945	ORIGINATING CITY 950	DESTINATION CITY 955	CONNECTION RESTRICTIONS 960
23456	4/20/97	4321	JOHN DOE	12345	MRS. JOHN DOE, JOHN DOE JR.	NEW YORK, NY (JFK)	LOS ANGELES, CA (LAX)	LEAVE SATURDAY
23457	4/21/97	2648	JAMES SMITH	45231	ANN SMITH	NEW YORK, NY (JFK)	CHICAGO, IL (MDW/ORD)	ONE STOP
23457	4/21/97	2648	JAMES SMITH	45231	ANN SMITH	NEW YORK, NY (JFK)	CHICAGO, IL (MDW/ORD)	ONE STOP

905

910

FIG. 9a

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CPO DATABASE

DATES OF DEPARTURE	DATES OF RETURN	NUMBER OF PASSENGERS TRAVELING	PRICE PER TICKET	OTHER RESTRICTIONS	STATUS	PASSENGER NAME RECORD NUMBER
965	970	975	980	985	990	995
4/12/97- 4/14/97	4/29/97- 4/30/97	3	\$547.01		ACCEPTED	33333
4/22/97	4/30/97	2	\$188.00	N/A	PENDING	
4/22/97	4/30/97	2	\$200.00	N/A	PENDING	

FIG. 9b

SECURED AIRLINE RULES DATABASE 1000

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RULE NUMBER 1010	ORIGINATING CITY 1012	DESTINATION CITY 1014	CONNECTION RESTRICTIONS 1016	FLIGHT NUMBERS 1018	DATE(S) OF DEPARTURE 1020	TIME(S) OF DEPARTURE 1022	DEPARTURE DAY OF WEEK 1024
45685	NEWARK, NJ (EWR)	ORLANDO, FL (MCO)	N/A	N/A	10/1/97- 10/31/97	N/A	TUES- THURS
45687	NEW YORK, NY (JFK)	CHICAGO, IL (ORD)	THRU CLEVELAND OR PITTSBURG	N/A	4/1/97- 5/31/97	11AM-2PM	TUES.

1002

1004

DATE(S) OF RETURN 1026	TIMES OF RETURN 1030	RETURN DAY OF WEEK 1032	NUMBER OF PASSENGERS TRAVELING 1034	LENGTH OF HAUL 1036	YIELD (\$1/MILE) 1038	MINIMUM PRICE 1040	INVENTORY RESTRICTIONS OR AVAILABILITY 1042	ADVANCE PURCHASE REQUIREMENTS 1044
10/1/97- 10/31/97	N/A	TUES- THURS.	AT LEAST 2	N/A	N/A	\$165.00	K INVENTORY ONLY	WITHIN 21 DAYS OF FLIGHT
4/1/97- 5/31/97	11AM-2PM	MON.- THURS.	2	N/A	N/A	\$150.00	Q OR K INVENTORY ONLY	7-21 DAYS PRIOR TO FLIGHT

FIG. 10a

468020" 67E68880

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SECURED AIRLINES RULES
DATABASE- INVENTORY

1050

RULE NUMBER 1060	AIRLINE 1062	FLIGHT NO. 1064	DATE(S) 1066	NUMBER OF SEATS AVAILABLE 1068
234566	AMERICAN	249X	4/29/97	14
234567	AMERICAN	1209	5/1/97	25
2345678	AMERICAN	808	5/1/97	7

1052

1054

1056

FIG. 10b

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SECURED AIRLINES RULES
DATABASE- PRICING

1075

AIRLINE 1088	ORIGINATING CITY 1090	DESTINATION CITY 1092	DATE(S) 1093	MINIMUM PRICE 1096
AMERICAN	CLEVELAND, OH (CLE)	NEW YORK, NY (JFK)	5/2/97-5/13/97	\$75
AMERICAN	CLEVELAND, OH (CLE)	LOS ANGELES, CA (LAX)	5/1/97-5/13/97	\$260
AMERICAN	NEW YORK, NY (JFK)	CHICAGO, IL (ORD)	5/1/97-5/31/97	\$182

1080

1080

1080

FIG. 10c

16/27
COUNTER OFFER RULES
DATABASE 1100

RULE NUMBER	DATE(S) OF DEPARTURE	TIME(S) OF DEPARTURE	DATE(S) OF RETURN	TIME(S) OF RETURN
45687	WITHIN 1 DAY	WITHIN 2 HOURS	WITHIN 1 DAY	WITHIN 2 HOURS

NUMBER OF PASSENGERS TRAVELLING	LENGTH OF HAUL	YIELD	MINIMUM PRICE	ADVANCE PURCHASE REQUIREMENTS
AT LEAST 2	N/A	N/A	WITHIN 10%	WITHIN 2 DAYS

FIG. 11

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SECURED AIRLINE AUDIT
DATABASE 1200

CPO NUMBER 1220	ANSWER RESPONSE 1225	DATE 1230	TIME 1235	PASSENGER NAME RECORD NUMBER 1235	TICKET BOOKED 1235
2345	YES	4/5/97	3:40PM	56789	ANOTHER AIRLINE
2346	NO	4/6/97	2:00PM	98765	NO TICKET BOOKED
2347	YES	4/8/97	12:00PM	34567	THIS AIRLINE

1205

1210

1215

FIG. 12

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PRICING AND RESTRICTIONS
DATABASE 1300

FLIGHT	DATE	INVENTORY K PRICE	INVENTORY K RESTRICTION	INVENTORY Y PRICE	INVENTORY Y RESTRICTION
AL654	4/16/97	\$50.00	7 DAY RETURN	\$40.00	RETURN FRIDAY
DB120	5/12/97	\$75.00	RETURN FRIDAY	\$60.00	ONE STOP
124C	6/3/97	\$25.00	ONE STOP	\$20.00	7 DAY RETURN

1305

1310

1315

FIG. 13

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SEAT ALLOCATION
DATABASE 1400



FLIGHT NUMBER	DEPARTURE DATE	INVENTORY K SEATS AVAILABLE	INVENTORY Y SEATS AVAILABLE	TOTAL SEATS BOOKED 1045	TOTAL CAPACITY
12345	5/15/97	42	114	144	300
23456	5/15/97	36	200	64	300
34567	5/15/97	58	97	145	300
45678	5/15/97	27	212	61	300

1405

1410

1415

1420

FIG. 14

20/27
FORECAST AND DEMAND
ANALYSIS DATABASE 1500

FLIGHT NUMBER	DEPARTURE DATE	ORIGINATING CITY	DESTINATION CITY	OFFERED PRICE	FARE CLASS	ACTUAL QUANTITY SOLD	FORCASTED QUANTITY
1530	1535	1540	1545	1550	1555	1560	
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$349	Y	70	300
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$339	Y	100	130
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$329	Y	130	140
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$409	K	7	20
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$399	K	40	60

1505
1510
1515
1520
1525

FIG. 15

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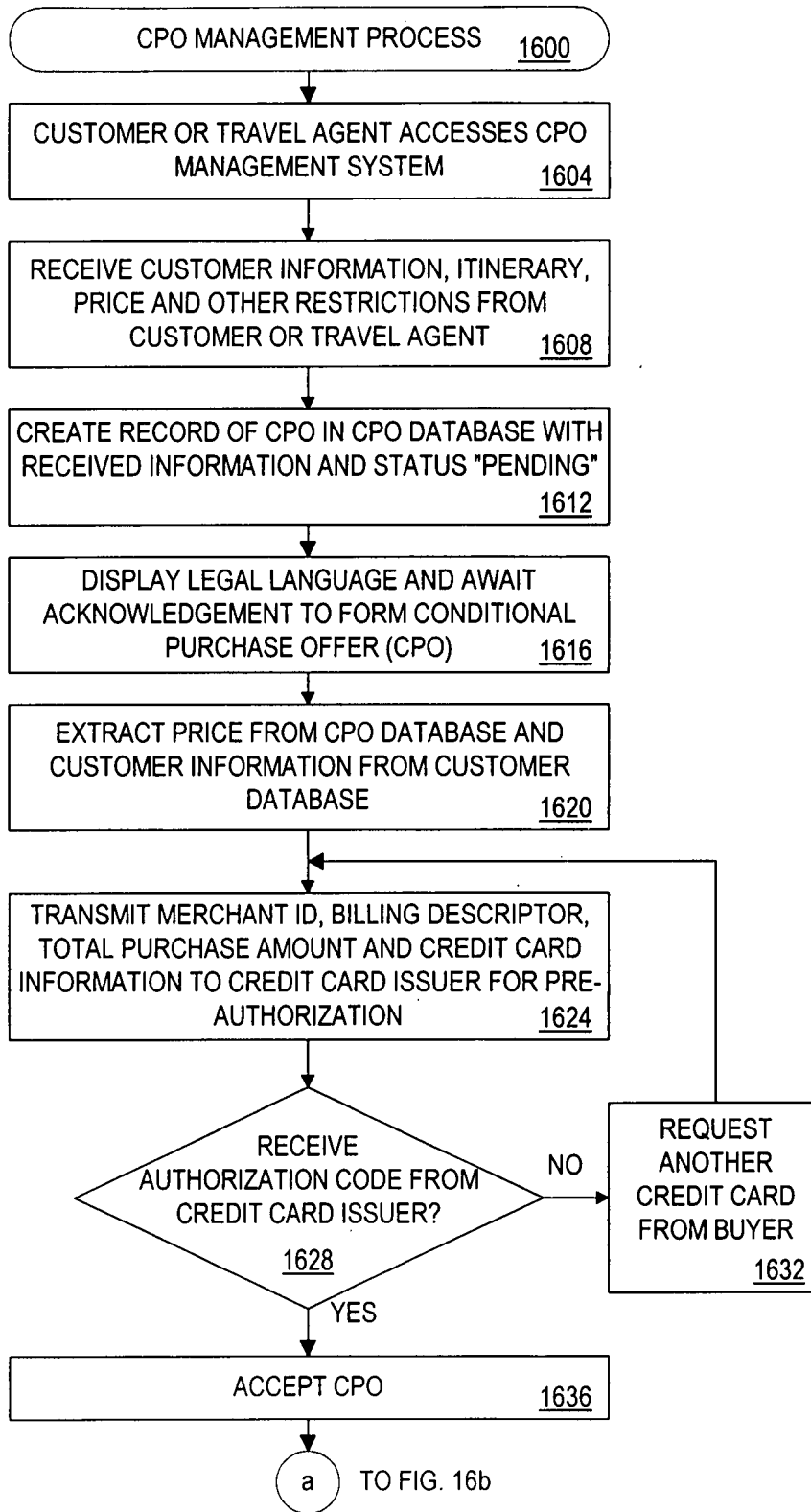


FIG. 16a

26 705 0889310-070880

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a FROM FIG. 16a

EXECUTE EVALUATION PROCESS (FIG. 17) FOR EACH AIRLINE TO
EVALUATE CPO AGAINST SECURED AIRLINES RULES DATABASE

1640

IS CPO
ACCEPTED BY AT LEAST ONE
AIRLINE?

1644

YES

IS CPO
ACCEPTED BY
MORE THAN ONE
AIRLINE?

1648

YES

EXECUTE TIE BREAKER
ALGORITHM TO IDENTIFY
WHICH AIRLINE ACCEPTANCE
TO UTILIZE

1652

NO

DID AT LEAST
ONE AIRLINE PROVIDE A
COUNTER OFFER?

1656

YES

CREATE RECORD OF COUNTER
OFFER IN CPO DATABASE

1660

TRANSMIT BINDING COUNTER
OFFER(S) TO CUSTOMER

1664

DOES
CUSTOMER ACCEPT
COUNTER
OFFER?

1668

YES

NO

e

TO
FIG. 16c

c

TO FIG. 16c

FIG. 16b

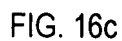
2025 RELEASE UNDER E.O. 14176

26 705

c FROM FIG. 16b

d FROM FIG. 16b

e FROM FIG. 16b



00000000000000000000000000000000

705 26

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EVALUATION PROCESS
(CPO) 1700

EXTRACT ORIGINATING AND DESTINATION CITIES
(O&D PAIR) FROM CPO RECORD 1705

IDENTIFY ALL RULES PERTINENT TO EXTRACTED
O&D PAIR 1710

FOR EACH IDENTIFIED RULE, COMPARE CUSTOMER RESTRICTIONS FROM FIELD 960
THROUGH 995 OF CPO DATABASE WITH AIRLINE RESTRICTIONS FROM FIELDS 1016
THROUGH 1044 OF SECURED AIRLINE RULES DATABASE 1715

DOES CPO
SATISFY AT LEAST ONE AIRLINE RULE?
1720

NO

a

TO FIG. 17b

YES

ARE ANY
SATISFIED
RULES CONDITIONED ON AVAILABLE
INVENTORY?
1725

NO

YES

ACCESS CRS TO IDENTIFY FLIGHTS MEETING
RESTRICTIONS OF SATISFIED RULE AND CPO AND
HAVING SEATS AVAILABLE 1730

HAS MORE
THAN ONE FLIGHT SATISFYING THE CPO BEEN
IDENTIFIED?
1735

NO

YES

b

TO FIG. 17b
FIG. 17a

c

TO FIG. 17b

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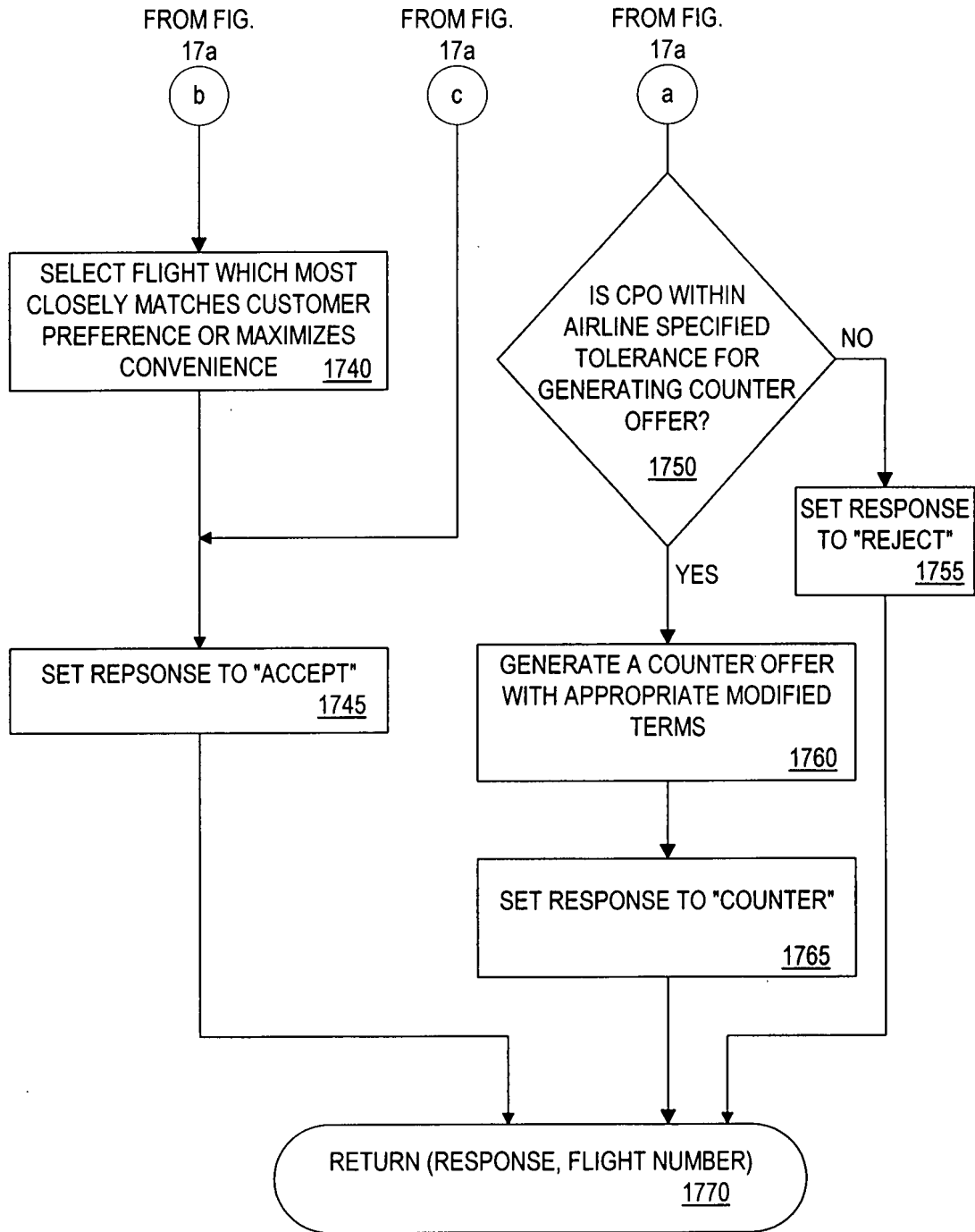


FIG. 17b

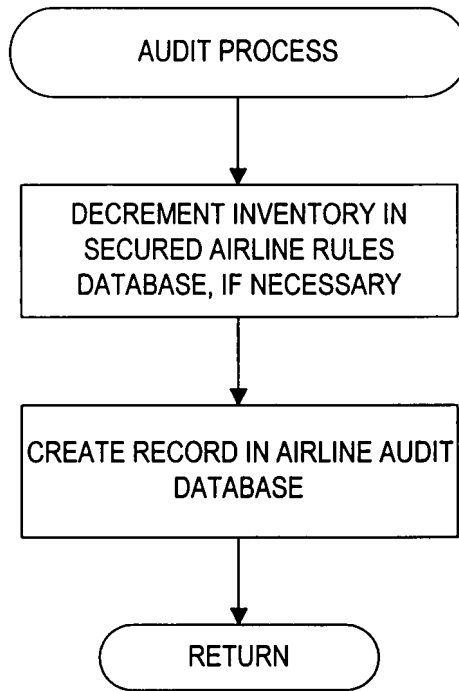


FIG. 18

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2025 RELEASE UNDER E.O. 14176

26 705

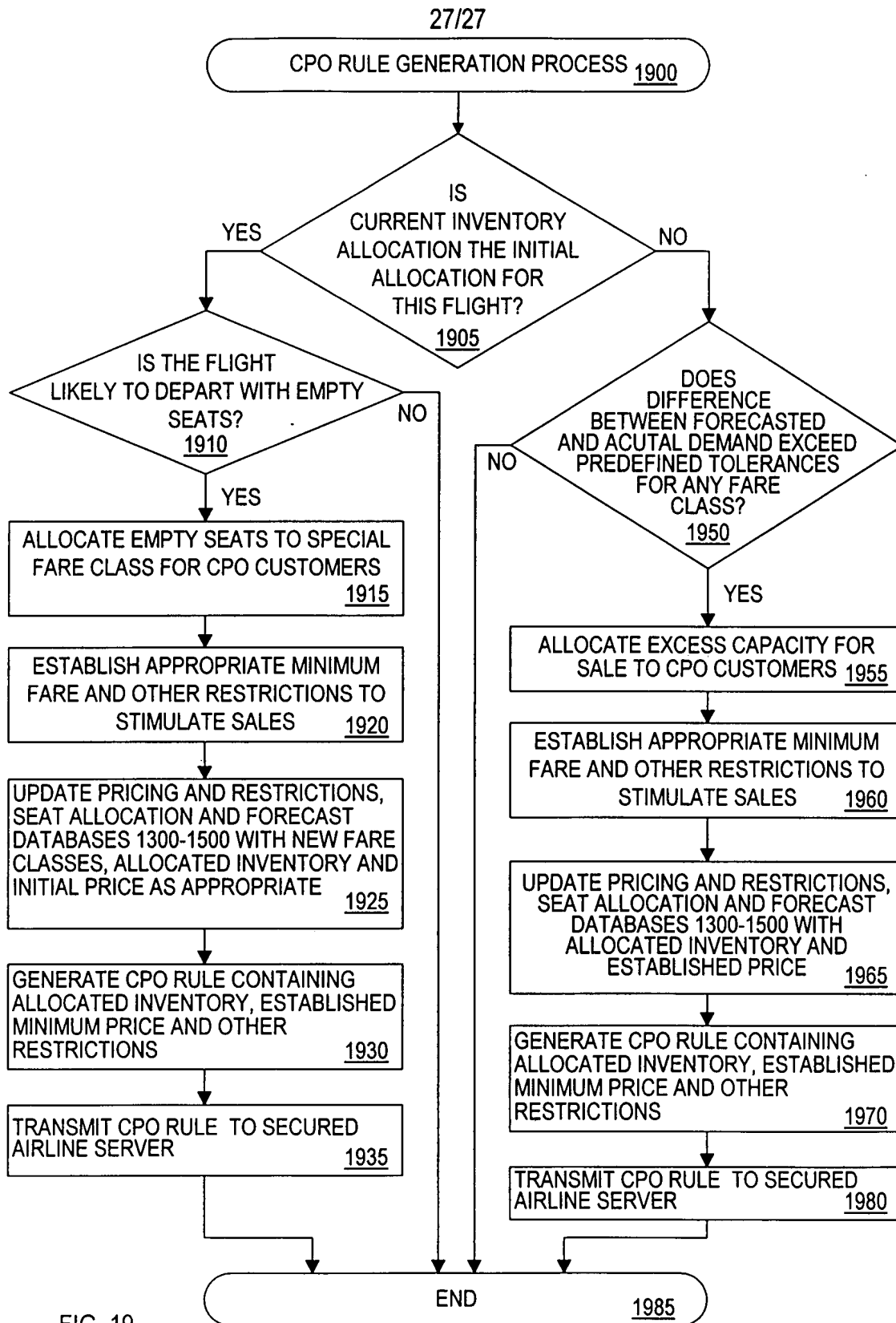


FIG. 19